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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/021,250	12/19/2001	Yu-Cheng Lin	LINY3021/EM 7226		
23364	7590 06/30/2004		EXAMINER		
BACON & THOMAS, PLLC			SINES, BRIAN J		
625 SLATERS LANE FOURTH FLOOR			ART UNIT	PAPER NUMBER	
ALEXANDRIA, VA 22314			1743		
ALEXANDRI	IA, VA 22314		1743		

DATE MAILED: 06/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	n No	Applicant(s)	1-1			
		10/021,250		LIN ET AL.	(J_{ℓ})			
Office Action Summary		Examiner		Art Unit				
		Brian J. Sir	nae	1743				
	The MAILING DATE of this communica				dress			
Period fo				·				
THE - External after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICATION of time may be available under the provisions of 3 SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) do period for reply is specified above, the maximum statute re to reply within the set or extended period for reply will reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	ATION. 37 CFR 1.136(a). In no ever cation. lays, a reply within the statulory period will apply and will by statute, cause the application.	nt, however, may a reply be tir fory minimum of thirty (30) day expire SIX (6) MONTHS from cation to become ABANDONE	nely filed s will be considered timely the mailing date of this co D (35 U.S.C. § 133).	y. ommunication.			
Status								
1)	Responsive to communication(s) filed	on .						
2a)[•)⊠ This action is no	on-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5)□ 6)⊠ 7)□ 8)□	Claim(s) <u>1-29</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction.	withdrawn from cor on and/or election re						
	The specification is objected to by the I							
10)	The drawing(s) filed on is/are: a							
11)□	Applicant may not request that any objection Replacement drawing sheet(s) including the The oath or declaration is objected to be	ne correction is require	ed if the drawing(s) is of	ojected to. See 37 C				
		.,						
_	under 35 U.S.C. § 119			-) (4) (5)				
a)	Acknowledgment is made of a claim for All b) Some * c) None of: 1. Certified copies of the priority do 2. Certified copies of the priority do 3. Copies of the certified copies of application from the International See the attached detailed Office action	ocuments have bee ocuments have bee the priority docume al Bureau (PCT Rul	n received. n received in Applica ents have been receive e 17.2(a)).	tion No ved in this National	l Stage			
Attachme	nt(s)			•				
	ice of References Cited (PTO-892)	0.048\	4) Interview Summar Paper No(s)/Mail I					
3) 🔲 Info	ice of Draftsperson's Patent Drawing Review (PTormation Disclosure Statement(s) (PTO-1449 or Poer No(s)/Mail Date		5) Notice of Informal 6) Other:		O-152)			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

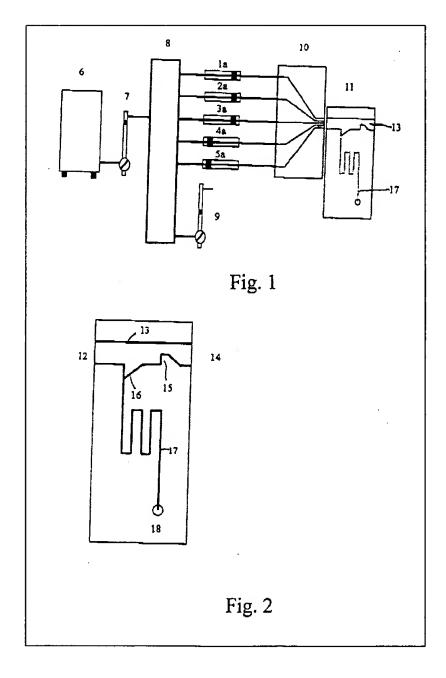
(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

Claims 1 – 29 are rejected under 35 U.S.C. 102(e) as being anticipated by Yao et al. (U.S. Pat. No. 6,192,939 B1). Regarding claims 1, 6 - 14, 19 - 24 and 29, Yao et al. teach a pneumatic apparatus and method for use with microfluidic devices for DNA sample processing and analysis. Yao et al. teach that the apparatus comprises: an external servo system; and air gallery structure (13); and a connecting channel (17) contained within a microfluidic reaction module (11) (see col. 2, line 35 – col. 6, line 67; figures 1 & 2). Regarding claim 2 and 15, Yao et al. teach the incorporation of an air compressor (6) and a buffer tank (8) (see col. 4, lines 16 – 27). Regarding claims 3-5 and 16-18, Yao et al. teach the incorporation of a suction component and an exclusion component (see col. 4, line 49 - col. 5, line 36). The Courts have held that apparatus claims must be structurally distinguishable from the prior art in terms of structure, not function. See In re Danley, 120 USPQ 528, 531 (CCPA 1959); and Hewlett-Packard Co. V. Bausch and Lomb, Inc., 15 USPQ2d 1525, 1528 (Fed. Cir. 1990). The Courts have held that the manner of operating an apparatus does not differentiate an apparatus claim from the prior art, if the prior art apparatus teaches all of the structural limitations of the claim. See Ex Parte Masham, 2 USPQ2d 1647 (BPAI 1987) (see MPEP § 2114). Regarding claims 25 - 28, as discussed above, Yao et al. teach all of the structure of the apparatus provided in the

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claimed method, which merely recites the conventional operation of that apparatus. Regarding process or method claims, a prior art device anticipates a claimed process, if the device carries out the process during normal operation (see MPEP § 2112.02). The Courts have held that when a prior art device is the same as a device described in the specification for carrying out the claimed method, it can be assumed that the device will inherently perform the claimed process. See *In re King*, 801 F.2d 1324, 231 USPQ 136 (Fed. Cir. 1986). In addition, regarding product and apparatus claims, when the structure recited in the reference is substantially identical to that of the claims, claimed properties or functions are presumed to be inherent (see MPEP § 2112.01).



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Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Yao teaches a microfluidic apparatus comprising a pneumatic microflow driving element. Caren teaches a microfluidic pumping apparatus.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian J. Sines, Ph.D. whose telephone number is (571) 272-1263. The examiner can normally be reached on Monday - Friday (11:30 AM - 8 PM EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill A. Warden can be reached on (571) 272-1267. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jill Warden
Supervisory Patent Examine
Technology Center 1700